THE QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY

EDITORIAL BOARD:

H. B. Barlow
D. E. Broadbent
V. R. Cane
E. R. F. W. Crossman
A. Elithorn
R. L. Gregory
K. R. L. Hall
I. M. L. Hunter
A. R. Jonckheere
H. Kay
J. A. Leonard
R. L. Reid
A. M. Uttley
D. Vowles
A. J. Watson
L. Weiskrantz
O. L. Zangwill

Editorial Assistant: Kathleen P. Watts

VOLUME XV, 1963

PUBLISHED FOR
THE EXPERIMENTAL PSYCHOLOGY SOCIETY
BY
W. HEFFER & SONS LTD. CAMBRIDGE

The Quarterly Journal of Experimental Psychology

Volume XV

CONTENTS

R. Borger. The Refractory Period and Serial Choice-reactions - - 1

J. R. Parriss. Visual Discrimination in the Toad - - - - - - 13

J. R. Parriss. Retention of Shape Discrimination after Regeneration of the Optic Nerves in the Toad - - - - - - - - - 22

A. R. Jensen. Serial Rote-learning: Incremental or All-or-None? - 27

H. B. Barlow. Slippage of Contact Lenses and Other Artefacts in Relation to Fading and Regeneration of Supposedly Stable Retinal Images - 36

A. Cowey. The Basis of a Method of Perimetry with Monkeys - - 81

A. Cowey and L. Weiskrantz. A Perimetric Study of Visual Field Defects in Monkeys - - - - - - - - - - - - - - 91

W. R. A. Muntz. Intraretinal Transfer and the Function of the Optic Lobes in Octopus - - - - - - - - - - - - 116

R. G. Rudel and H.-L. Teuber. Decrement of Visual and Haptic Müller-Lyer Illusion on Repeated Trials: A Study of Cross-modal Transfer - 125

J. J. Gibson and F. A. Backlund. An After-effect in Haptic Space Perception - - - - - - - - - - - - - - 145

E. C. Carterette and M. Cole. Repetition and Confirmation of Messages Received by Ear and Eye - - - - - - - - - - 155

H. B. G. Thomas. Communication Theory and the Constellation Hypothesis of Calculation - - - - - - - - - - - - 173

J. P. Van De Geer and W. J. M. Levelt. Detection of Visual Patterns Disturbed by Noise - - - - - - - - - - - - 192

N. S. Sutherland and A. E. Carr. The Visual Discrimination of Shape by Octopus: The Effects of Stimulus Size - - - - - - - 225

N. J. Mackintosh and J. Mackintosh. Reversal Learning in *Octopus vulgaris* Lamarck with and without Irrelevant Cues - - - - - - - 236

J. R. Symons. The Effect of Various Heteromodal Stimuli on Visual Sensitivity - - - - - - - - - - - - - - - 243

R. L. Gregory and O. L. Zangwill. The Origin of the Autokinetic Effect 252

P. B. Warr. The Effect of Repeated Presentation of Items on Paired Associate Learning - - - - - - - - - - - - 262

SPECIAL ARTICLE

D. E. Broadbent. Differences and Interactions Between Stresses - - 205

SHORTER ARTICLES AND NOTES

K. L. Kirk and M. E. Bitterman. Habit Reversal in the Turtle - 52

N. Agnew and M. Agnew. Drive Level Effects on Tasks of Narrow and Broad Attention - - - - - - - - - - - - - 58

A. D. Baddeley. A Zeigarnik-like Effect in the Recall of Anagram Solutions 63

K. Gibbins and C. I. Howarth. A Reply to John W. Senders and Virginia L. Senders - - - - - - - - - - - - - - 65

M. Kinsbourne and E. K. Warrington. The Development of Finger Differentiation - - - - - - - - - - - - - 132

N. J. Mackintosh. Direct Transfer from a Horizontal-vertical Discrimination to a Brightness Discrimination in the Rat - - - - - 212

D. Rosenthal, T. P. Zahn and D. Shakow. Verbal *versus* Manual Reaction Time in Schizophrenic and Normal Subjects - - - - - - 214

D. Liddle and B. M. Foss. The Tactile Perception of Size: Some Relationships with Distance and Direction - - - - - - - 217

G. Hemmings and W. A. Matthews. Shape Discrimination in Tropical Fish 273

J. R. Ison. Some Remarks on Deutsch and Clarkson's "A Test of the Neo-behaviouristic Theory of Extinction" - - - - - - - - 279

APPARATUS

N. F. Dixon. The Recording of Continuous Variation Along Four Dimensions 67

Book Reviews - - - - - - - - - - - 75, 142, 220 and 281

Publications Received - - - - - - - - - - - - 73

Index of Authors - - - - - - - - - - - - - 288

Experimental Psychology Society

Proceedings, 1962 - - - - - - - - - - - - - 71

List of Members - - - - - - - - - - - - - 138